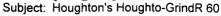




LAndreacola@houghto nintl.com 12/01/2004 11:44 AM To: Carlyn Prisk/R3/USEPA/US@EPA

cc: gcarl@houghtonintl.com





MS DocID 20521

Carlyn,

Attached is the information you requested for Houghto-Grind(r) 60.

<<HoughtoGrind60.pdf>> <<HoughtoGrind60.doc>>

I could only find information as far back at the late 1970's. The formula remains basically the same throughout.

I hope you find this information useful. Please feel free to contact us if you need any further information.

Best regards,

Lori

Lori Andreacola

HoughtoGrind60.pdfHoughtoGrind60.doc



Houghton International Inc.

Material Safety Data Sheet HOUGHTO-GRIND 60

Revision Date: 09/08/1999

1. Chemical Product and Company Identification

Product Name

HOUGHTO-GRIND 60

Emergency

24 HOUR - (800) 424-9300

Houghton International Inc.

Phone Number

(CHEMTREC)

Company Name

Madison & Van Buren Aves

FAX

(610) 666-1376

Valley Forge, PA 19482

Customer

(888) 459-9844

Website

www.houghtonintl.com

Service

Telephone

(610) 666-4000

2. Hazardous Ingredients

Component	Cas No	% by Weight	Hazards
Diethanolamine	111-42-2	<1	TLV: 2 mg/m³ (skin) PEL: 3 ppm (vacated) STEL: N/E Other: N/E
Monoethanolamine	141-43-5	1-10	TLV: 3 ppm PEL: 3 ppm STEL: 6 ppm Other: N/E
Triethanolamine	102-71-6	1-10	TLV: 5 mg/m³ PEL: N/E STEL: N/E Other: N/E

N/E - Not Established; N/A - Not Applicable; Mfr - Manufacturer Recommendation

3. Hazards Identification

Primary Entry Routes

EYES, SKIN, INHALATION

Acute Effects

Inhalation

MISTS MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT.

Eye

MAY CAUSE IRRITATION.

Skin

MAY CAUSE IRRITATION.

Ingestion

INGESTION OF LARGE AMOUNTS MAY AFFECT PERSONS WITH EXISTING

KIDNEY AND LIVER DISEASE.

Page 1 Continued on Next Page



Material Safety Data Sheet HOUGHTO-GRIND 60

ORIGINAL.

Revision Date: 09/08/1999

3. Hazards Identification - continued

Carcinogenicity

Chronic Effects

NO COMPONENT KNOWN TO BE PRESENT IN THIS PRODUCT AT GREATER

THAN 0.1% IS LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Medical Conditions
Aggravated by LongTerm

PRE-EXISTING SKIN AND RESPIRATORY CONDITIONS MAY BE AGGRAVATED

BY EXPSOURE.

Exposure

UNKNOWN

1

HMIS:

Health

Flammability 0

Reactivity 0

Personal Protection B

4. First Aid Measures

Inhalation REMOVE TO SOURCE OF FRESH AIR. SEE SECTION 2 FOR APPLICABLE

EXPOSURE LIMITS.

Eye Contact FLUSH WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN.

Skin Contact WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND

LAUNDER BEFORE REUSING.

Ingestion GIVE WATER OR MILK AND INDUCE VOMITING. CONSULT PHYSICIAN

Note to Physicians NO SPECIFIC ANTIDOTE KNOWN. BASED ON INDIVIDUAL REACTIONS OF

THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL

SYMPTOMS AND CLINICAL CONDITIONS.

N/A - Not Applicable

5. Fire Fighting Measures

Flash Point N/A

Autoignition Temperature N/D

LEL N/D

UEL N/D

Page 2 Continued on Next Page

420060



Houghton International Inc.

Material Safety Data Sheet HOUGHTO-GRIND 60

Revision Date: 09/08/1999

5.	Fire	Fighting	Measures	-	continued
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Extinguishing Media

PRODUCT CONTAINS WATER. IF WATER IS REMOVED, USE CARBON

DIOXIDE, DRY CHEMICAL OR FOAM.

Unusual Fire or Explosion

Hazards

NONE

Fire Fighting Instructions

WEAR SELF-CONTAINED BREATHING APPARATUS IN CONFINED SPACES.

NFPA:

Health

1

Flammability

0

Reactivity

0

Special

N/A

N/A - Not Applicable; ND - Not Determined; > - Greater Than; < - Less Than

6. Accidental Release Measures

Spill or Release Procedures

DILUTE WITH WATER AND MOP UP THOROUGHLY OR APPLY DRY

ABSORBENT MATERIAL AND SWEEP UP.

7. Handling and Storage

Handling Precautions

AVOID CONTACT WITH STRONG OXIDIZERS. WASH THOROUGHLY AFTER HANDLING. WEAR GOGGLES AND GLOVES WHEN HANDLING NEAT MATERIAL. DO NOT ADD NITRITES TO THIS PRODUCT. USE WITH

ADEQUATE VENTILATION.

Storage Requirements

KEEP CONTAINERS CLOSED WHEN NOT IN USE.

8. Exposure Controls/Personal Protection

Engineering Controls

GENERAL MECHANICAL VENTILATION IS OK. LOCAL EXHAUST WHEN

MISTING.

Personal Protective Equipment

Eye/Face Protection

SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

Skin Protection

RUBBER GLOVES.

Page 3
Continued on Next Page

420060



Houghton International Inc. Material Safety Data Sheet HOUGHTO-GRIND 60

OBIGINAL

Revision Date: 09/08/1999

8. Exposure Controls/Personal Protection - continued

Respiratory Protection

REQUIRED IF THE EXPOSURE LIMITS IN SECTION 2 ARE EXCEEDED.

Other

EYE WASH AND SAFETY SHOWER RECOMMENDED.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or applying cosmetics.

9. Physical and Chemical Properties				
Appearance	GREEN FLUORESCENT LIQUID	pH (Neat)	10.4	
Odor	AMINE	pH (Dilution)		
Vapor Pressure (mmHg) Vapor Density (Air = 1)	AS WATER	At Percent	5	
	AS WATER	pН	9.7	
		Water Solubility	COMPLETE	
Specific Gravity (Water = 1)	1.08	Boiling Point	215°F	
		Freezing/ Melting Point	N/D	
		Evaporation Rate (BuAc = 1)	AS WATER	

N/D - Not Determined; N/A - Not Applicable; > - Greater Than; < - Less Than

	10. Stability and Reactivity
Stability	THIS PRODUCT IS STABLE AT ROOM TEMPERATURE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS.

Chemical Incompatibilities

STRONG OXIDIZERS

Hazardous Decomposition

Products

THERMAL: OXIDES OF CARBON AND NITROGEN

Hazardous Polymerization

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.



Material Safety Data Sheet HOUGHTO-GRIND 60

Revision Date: 09/08/1999

11. Toxicological Information

NO DATA AVAILABLE

12. Ecological Information

NO DATA AVAILABLE

13. Disposal Considerations

Disposal

FOLLOW PERTINENT REGULATIONS FOR DISPOSAL. IT IS THE

RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE, AT THE TIME OF

DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR

DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS

WASTE (40 CFR 261.20-24).

RCRA Hazardous Waste

Number

N/A

14. Transportation Information

Proper Shipping Name

NOT HAZARDOUS

15. Regulatory Information

TSCA Section 8(b)

ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE TSCA

INVENTORY.

CERCLA Reportable

Quantity

THIS PRODUCT CONTAINS 0.15% DIETHANOLAMINE (RQ - 100 LBS).

SARA Title III, Section 313

THIS PRODUCT CONTAINS NO TOXIC CHEMICAL SUBJECT TO THE

REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40

CFR PART 372.

Ozone Depleting Substances THIS PRODUCT WAS NOT MANUFACTURED, DOES NOT CONTAIN, AND WAS

NOT PACKAGED USING ANY CLASS I OR CLASS II OZONE DEPLETING

SUBSTANCE AS DEFINED BY THE CLEAN AIR ACT.



Material Safety Data Sheet HOUGHTO-GRIND 60

Revision Date: 09/08/1999

16. Other Information

+

PRELIMINARY FINDINGS FROM THE NATIONAL TOXICOLOGY PROGRAM SUGGEST AN INCREASED INCIDENCE OF LIVER TUMORS IN BOTH SEXES OF MICE AND AN INCREASED INCIDENCE OF KIDNEY TUMORS IN MALE MICE DERMALLY EXPOSED FOR THEIR LIFETIME TO DIETHANOLAMINE. THE SIGNIFICANCE OF THESE FINDINGS AND THEIR RELEVANCE TO HUMANS ARE NOT CLEAR AS DIETHANOLAMINE WAS NOT GENOTOXIC AND DID NOT INDUCE TUMORS IN RATS OR IN TRANSGENIC MICE SIMILARLY TREATED. ADDITIONAL RESEARCH WHICH IS DESIGNED TO PROVIDE A BETTER UNDERSTANDING OF THE SIGNIFICANCE OF THESE OBSERVATIONS TO HUMANS, IF ANY, IS UNDERWAY.

Prepared By

GARY CARL

Title

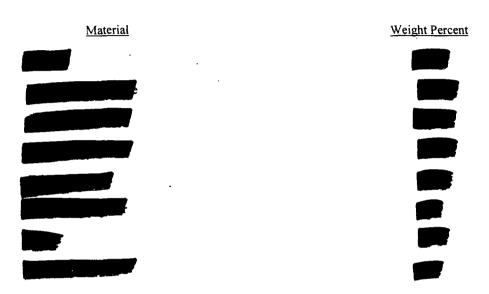
MANAGER, PRODUCT SAFETY

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CONFIDENTIAL

HOUGHTO-GRIND® 60



September 8, 1999

Deleted: August 11, 1998